

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A rotor of a rotating electric machine, said rotor comprising:
 - a rotary shaft;
 - a rotor coil surrounding the rotary shaft;
 - a pair of pole core members having a plurality of claw-shaped magnetic poles extending ~~like claws~~ along an axial direction of the rotor at regular intervals around the rotor, each of the claw-shaped magnetic poles becoming thinner toward ~~its~~ an extreme end thereof forming an inclined inside surface facing the rotary shaft, and the pole core members being fitted on the rotary shaft with ~~their~~ the claw-shaped magnetic poles ~~directed face to face from front and rear sides and engaged thereof interdigitated~~ with one another so that the claw-shaped magnetic poles surround the rotor coil;
 - ~~a plurality of magnets located on both sides~~ either side of each of the claw-shaped magnetic poles such that each of the magnets produces a magnetic field oriented in a direction opposite to the direction of a magnetic flux formed between the adjacent claw-shaped magnetic poles;
 - ~~a plurality of magnet mounting members for holding the magnets against both~~ said side surfaces of each of the claw-shaped magnetic poles, each of the magnet mounting members having a generally C-shaped cross section including:
 - ~~a plurality of magnet retaining portions formed on both sides~~ either side for holding the magnets against the side surfaces of each of the claw-shaped magnetic poles; and
 - a middle portion having a platelike shape which matches the inclined inside surface of each of the claw-shaped magnetic poles, each of the magnet mounting members and the magnets fitted in the magnet retaining portions on both sides together forming a

magnet assembly; and

a backup ring having an outer peripheral surface for securing the magnet mounting members in position;

wherein each of the claw-shaped magnetic poles has a stopper portion at the extreme end ~~on~~of the inclined inside surface,

the magnet assembly is fixedly mounted on each of the claw-shaped magnetic poles with the middle portion of the magnet mounting member placed against the inclined inside surface of each of the claw-shaped magnetic poles and engaged with the stopper portion thereof,

the outer peripheral surface of the backup ring is ~~so~~-shaped ~~as~~-to align with alternately oppositely inclined inside surfaces of the magnet mounting members of the magnet assemblies mounted on the claw-shaped magnetic poles at basal parts thereof, and

the backup ring is fitted inside the magnet assemblies mounted on the claw-shaped magnetic poles such that the backup ring aligns with the inclined inside surfaces of the magnet mounting members.

2. (original): The rotor of the rotating electric machine according to claim 1, wherein the backup ring has on the outside thereof an outwardly projecting V-shaped cross section which aligns with the inclined inside surfaces of the magnet mounting members of the magnet assemblies.

3. (original): The rotor of the rotating electric machine according to claim 1, wherein the backup ring is formed of a pair of umbrella-shaped ring pieces of which outer surfaces together constitute the outer peripheral surface of the backup ring which aligns with the inclined inside surfaces of the magnet mounting members of the magnet assemblies.

4. (currently amended): The rotor of the rotating electric machine according to claim 1, wherein the backup ring ~~is produced by shaping~~ comprises a hollow cylindrical piece ~~in such a fashion that its~~ having a curved outer surface forms forming an outwardly projecting V-shaped cross section which aligns with the inclined inside surfaces of the magnet mounting members of the magnet assemblies.

5. (currently amended): The rotor of the rotating electric machine according to claim 1, wherein the backup ring is ~~produced by shaping~~ comprises a hollow cylindrical piece ~~in such a fashion that having~~ slant surfaces alternately located on left and right sides ~~are formed on of~~ the outside of ~~a the~~ hollow cylindrical piece, ~~so that~~ the slant surfaces of the backup ring ~~align~~ aligning with the inclined inside surfaces of the oppositely inclined alternate inside surfaces of the magnet mounting members of the magnet assemblies.

6. (currently amended): The rotor of the rotating electric machine according to claim 1, wherein ~~the an~~ outside diameter of the backup ring is determined taking into account ~~the an~~ amount of elastic deformation of the outer peripheral surface of the backup ring which occurs when the backup ring is forced against the inclined inside surfaces of the magnet mounting members of the magnet assemblies.

7. (original): The rotor of the rotating electric machine according to claim 1, wherein an entirety of the rotor is impregnated with resin upon completion of rotor assembly.